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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 83 13 38

Classification of the application (IPC):
H04W 48/14, H04W 48/10, H04W 68/00

Technical fields searched (IPC):
H04W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	NORTEL ET AL: "On demand System Information broadcast" 3GPP DRAFT; R2-063585-ON DEMAND SIB, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, 09 January 2007 (2007-01-09), vol. RAN WG2, no. Riga, Latvia; 20070109, XP050133005 * section 2 *	4-6 1-3, 7
X	NORTEL: "System Information broadcast gating" 3GPP DRAFT; R2-063137, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, 01 November 2006 (2006-11-01), vol. RAN WG2, no. Riga, Latvia; 20061101, XP050132644 * the whole document *	1-7
X	US 2010027466 A1 (MUSTAPHA MONA [GB]) 04 February 2010 (2010-02-04) * paragraph [0039] - paragraph [0069] *	1-7
X A	NEC: "LTE BCH-on-demand" 3GPP DRAFT; R2-062930 LTE BCH ON DEMAND, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, 05 October 2006 (2006-10-05), vol. RAN WG2, no. Seoul, Korea; 20061005, XP050132448 * sections 2 and 3.2 *	4-7 1-3

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 17 October 2019	Examiner Gitzenis, Savvas
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-7

See subgroups 1.1 and 1.2

1.1. claims: 1-3, 5

A method comprising a. determining an SIB that is unobtainable without a request from the UE among SIBs that the UE desires to receive; and b. requesting the determined SIB to a network.

1.2. claims: 4, 6, 7

A method comprising one of features c. receiving a SIB broadcast notification and determining an SIB that is unobtainable within a certain time period without a request from the UE among SIBs that the UE desires to receive based on the received SIB broadcast notification; d. determining an SIB that is unobtainable without a request from the UE within a certain time period to be an SIB of interest; and feature (b) Optional feature includes e. the UE does not have the valid SIB of interest.

2. claims: 8-11

The method as in features (b), (d) and, moreover, optionally f. the SIB of interest being relevant to a particular feature, such as D2D and wireless local area network interworking, and the UE supporting and being interested to the particular feature.

3. claims: 12, 13

The method as in features (b), (d) and, moreover, g. the SIB of interest being relevant to a particular RRC state of the UE

4. claim: 14

The method as in features (b), (d) and, moreover, h. the SIB of interest is an essential SIB to any UE.

5. claim: 15

The method as in features (b), (d) and, moreover, optionally i. the SIB interested is requested after changing a serving cell.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-7

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 17 October 2019	Examiner Gitzenis, Savvas
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O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 17-10-2019
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010027466	A1	04-02-2010	CN 101523957 A 02-09-2009
			CN 102970729 A 13-03-2013
			EP 2070366 A1 17-06-2009
			ES 2559414 T3 12-02-2016
			GB 2447878 A 01-10-2008
			JP 5168515 B2 21-03-2013
			JP 2010506434 A 25-02-2010
			KR 20090095555 A 09-09-2009
			US 2010027466 A1 04-02-2010
			US 2019150069 A1 16-05-2019
			WO 2008044664 A1 17-04-2008